



SUNLIGHT™ SOLAR CHARGE CONTROLLER

- Proven Reliability
- Precise Lighting Control
- PWM Battery Charging

Morningstar's SunLight[™] solar controller builds on the industryproven SunSaver platform and adds microcontroller-managed automatic lighting control functions—a "best-in-class" controller that's built on the best. As a result, it's now the world's leading solar lighting controller for street and pathway lighting, parking areas, signage as well as essential facilities including bus stations and airfields. SunLight's tough, resistant design is ideal for places exposed to harsh conditions, including seaside locations.

• Provides 10 Lighting Options with accurate on-board timer and

TECHNICAL, PRODUCT, AND OPERATING FEATURES

- Test button flashes red LED to confirm correct rotary switch selection
- Test button turns lights on for 5 minutes (in LVD limited to 3 times)
- LVD overrides lighting timer
- Sunrise overrides lighting timer
- Timer accuracy is within 2 seconds
- Microcontroller digital accuracy
- Fully automatic operation
- Ten field adjustable lighting control options
- Special on/off/on functions
- Manual test capability
- LVD override protection
- Detects day and night using the PV array
- Suitable for all 12/24 Vdc lamps
- Sealed/Flooded battery select
- Temperature compensation
- Parallel with a SunSaver for 40 Amps solar
- Includes SunSaver battery charging circuit

Four versions available:

- 12 Volt: 10 and 20 Amp ratings
- 24 Volt: 10 and 20 Amp ratings

rotary digital switch (see back). User adjustable for 2 to 10 hours ON or for ON all night. Unique ON/OFF/ON settings conserve energy and turn lights on again for 1 or 2 hours before sunrise. Timer accuracy is within 2 seconds.

- Easy to set-up, with test-button feature and LED indicator. To confirm correct installation, test button turns light on during the day and LED indicates selected lighting option.
- Rugged design with anodized aluminum enclosure, epoxy encapsulation, corrosion-resistant terminals.





"Bulletproof and dependable... I will use them again and again"



Technical Specifications

Versions	SL-10L-12	SL-10L-24	SL-20L-12	SL-20L-24
Electrical			'	I
Rated Solar Current	10A	10A	20A	20A
Rated Load Current*	10A	10A	20A	20A
25% Current Overload	5 min.	5 min.	5 min.	5 min.
Nominal System Voltage	12Vdc	24Vdc	12Vdc	24Vdc
Regulation Voltage		·	·	
Sealed battery	14.1V	28.2V	14.1V	28.2V
Flooded battery	14.4V	28.8V	14.4V	28.8V
Load Disconnect	11.7V	23.4V	11.7V	23.4V
LVD Reconnect	12.8V	25.6V	12.8V	25.6V
Temperature Comp. (mV/°C)	-27	-54	-27	-54
Self-Consumption	8 mA	9mA	8 mA	9mA
Ambient Operating Temperature Range	-40C to +60C			

*Low Voltage Disconnect is included in all SunLight controllers.



Lighting Control Options

Mechanical Specifications

- Wire size #10 AWG (5.2 mm2)
- Anodized aluminum case
- Marine rated terminals
- Epoxy encapsulated
- Weight is 9 oz (0.26 kg)

Certifications

- CE, RoHS and REACH Compliant
- Manufactured in a Certified ISO 9001 Facility

Warranty

Five year warranty period. Contact Morningstar or your authorized distributor for complete terms.

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availability features

Control # MS-001724 REV 3/2021.EN

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Due to Morningstar's policy of continuous improvement, product availability, features and specifications are subject to change without notice.